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Glenn P. Ladwig

Glenn P. Ladwig, Patent Attorney

INFORMATION DISCLOSURE
STATEMENT
Examining Group 1614
Patent Application
Docket No. UF-281D2
Serial No. 10/625,825

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1614
Applicants : Anatoly E. Martynyuk, Donn Michael Dennis, Alexander V. Glushakov, Colin Sumners, M. Ian Phillips
Serial No. : 10/625,825
Filed : July 22, 2003
For : Materials and Methods for Treatment of Neurological Disorders Involving Overactivation of Glutamatergic Ionotropic Receptors

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.97 and §1.98, the applicants would like to bring to the attention of the Examiner, the references cited in the following patent application:

U.S. Serial No. 09/957,358, filed September 19, 2001, now U.S. Patent No. 6,620,850.

The subject application, Serial No. 10/625,825, claims the benefit under 35 USC §120 of the filing date of patent application Serial No. 09/957,358. The applicants respectfully request that the copies of references supplied in the Information Disclosure Statements of the 09/957,358 application, as well as references cited during the prosecution thereof, be made of record in the 10/625,825 application. As copies of the references filed in the 09/957,358 application, and cited on the attached

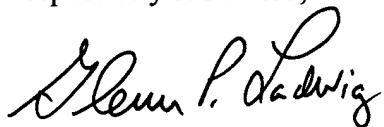
form PTO/SB/08, can be found in the 09/957,358 casefile, copies of those references are not provided herewith.

It is respectfully requested that the references cited in the 09/957,358 application be considered in the examination of the subject application and that their consideration be made of record.

The applicants have also listed on form PTO/SB/08 references which have not been cited in the 09/957,358 application. These references are listed as cite numbers U15, F1, and R34-R36 on form PTO/SB/08. Copies of these documents are enclosed with this IDS. The applicants respectfully request that these references be made of record and considered in the examination of the subject application.

The applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statements.

Respectfully submitted,



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GPL/mv

Attachments: Form PTO/SB/08 (4 pages); copies of some references cited.

O I P E
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/625,825
				Filing Date	July 22, 2003
				First Named Inventor	Anatoly E. Martynyuk
				Group Art Unit	1614
				Examiner Name	
Sheet	1	of	4	Attorney Docket Number	UF-281D2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
U1		4,279,917		Takami et al.	07-21-1981	All
U2		4,491,589		Dell et al.	01-01-1985	All
U3		4,604,286		Kawaijiri	08-05-1986	All
U4		5,605,818		Katsumata et al.	02-25-1997	All
U5		6,013,672		Ye et al.	01-11-2000	All
U6		6,084,084		Stormann et al.	07-04-2000	All
U7		6,001,575		Huganir et al.	12-14-1999	All
U8		6,362,226		Phillips, III et al.	03-26-2002	All
U9		5,789,444		Choi et al.	08-04-1998	All
U10		5,447,948		Seibyl et al.	09-05-1995	All
U11		5,089,517		Choi et al.	02-18-1992	All
U12		5,670,539		Richardson	09-23-1997	All
U13		6,620,850	B2	Martynyuk et al.	09-16-2003	All
U14		2003/0216472	A1	Martynyuk et al.	11-20-2003	All
U15		10/489,807		Martynyuk et al. (patent application)	03-15-2004	All
U16						
U17						

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
F1	WO		03/024443	A1	Univ. of Florida	03-27-2003	All	
F2								
F3								
F4								
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F10								

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	CHIARONI, P. et al. "A multivariate analysis of red blood cell membrane transports and plasma levels of L-Tyrosine and L-Tryptophan in depressed patients before treatment and after clinical improvement" <i>Neuropsychobiology</i> , 1990, 23:1-7.	
	R2	DOLLINS, A.B. et al. "L-Tyrosine ameliorates some effects of lower body negative pressure stress" <i>Physiology & Behavior</i> , 1995, 57(2):223-230.	
	R3	EATON, S.A. et al. "Competitive antagonism at metabotropic glutamate receptors by (S)-4-carboxyphenylglycine and (RS)- α -methyl-4-carboxyphenylglycine" <i>European Journal of Pharmacology-Molecular Pharmacology Section</i> , 1993, 244:195-197.	
	R4	GAGLIARDI, R.J. "Neuroprotection, excitotoxicity and NMDA antagonists" <i>Arg Neuropsiquiatr</i> , 2000, 58(2-B):583-588.	
	R5	GALLOWAY, G.P. et al. "A historically controlled trial of tyrosine for cocaine dependence" <i>Journal of Psychoactive Drugs</i> , July-September 1996, 28(3):305-309.	
	R6	GELENBERG, A.J. et al. "Neurotransmitter precursors for the treatment of depression" <i>Psychopharmacology Bulletin</i> , January 1982, 18(1):7-18.	
	R7	HAJAK, G. et al. "The influence of intravenous L-Tryptophan on plasma melatonin and sleep in men" <i>Pharmacopsychiat.</i> , 1991, 24:17-20.	
	R8	HELLER, B. et al. "Therapeutic action of D-phenylalanine in Parkinson's Disease" <i>Arzneim.-Forsch (Drug Res.)</i> , 1976, 26(4):577-579.	
	R9	HOLLMANN, M. et al. "Cloned Glutamate Receptors" <i>Annu. Rev. Neurosci.</i> , 1994, 17:31-108.	
	R10	KNOPFEL, T. et al. "Metabotropic glutamate receptors: Novel targets for drug development" <i>Journal of Medicinal Chemistry</i> , April 1995, 38(9):1417-1426.	
	R11	MAIESE, K. et al. "Group I and Group II metabotropic glutamate receptor subtypes provide enhanced neuroprotection" <i>Journal of Neuroscience Research</i> , 2000, 62:257-272.	
	R12	MEYER, J.S. et al. "Neurotransmitter precursor amino acids in the treatment of multi-infarct Dementia and Alzheimer's Disease" <i>Journal of the American Geriatrics Society</i> , July 1977, 25(7):289-298.	
	R13	OBRENOVITCH, T.P. "Excitotoxicity in neurological disorders--the glutamate paradox" <i>Int. J. Devl. Neuroscience</i> , 2000, 18:281-287.	

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Group Art Unit	1614
Examiner Name	

Attorney Docket Number

UF-281D2

NON PATENT LITERATURE DOCUMENTS

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	R14	SAPOLSKY, R.M. "Cellular defenses against excitotoxic insults" <i>Journal of Neurochemistry</i> , 2001, 76:1601-1611.	
	R15	SCHOEPP, D.D. et al. "Metabotropic glutamate receptors in brain function and pathology" <i>TiPS</i> , January 1993, 14:13-20.	
	R16	SEKIYAMA, N. et al. "Structure-activity relationships of new agonists and antagonists of different metabotropic glutamate receptor subtypes" <i>British Journal of Pharmacology</i> , 1996, 117:1493-1503.	
	R17	WATKINS, J. et al. "Phenylglycine derivatives as antagonists of metabotropic glutamate receptors" <i>TiPS</i> , September 1994, 15:333-342.	
	R18	ZIPFEL, G.J. et al. "Neuronal apoptosis after CNS injury: The roles of glutamate and calcium" <i>Journal of Neurotrauma</i> , 2000, 17(10):857-869.	
	R19	BELARDINELLI, L. et al. "1,3-Dipropyl-8-[2-(5,6-Epoxy)Norbornyl]Xanthine, a Potent, Specific and Selective A ₁ Adenosine Receptor Antagonist in the Guinea Pig Heart and Brain and in DDT, MF-2 Cells" <i>J. Pharmacol. Exp. Ther.</i> , 1995, 275(3):1167-1176.	
	R20	CHOI, D.W. "Excitotoxic Cell Death" <i>J. Neurobiol.</i> , 1992, 23(9):1261-1276.	
	R21	DENNIS, D.M. et al. "Homologous Desensitization of the A ₁ -Adenosine Receptor System in the Guinea Pig Atrioventricular Node" <i>J. Pharmacol. Exp. Ther.</i> , 1995, 272(3):1024-1035.	
	R22	KOSTYUK, P.G. et al. "Effects of intracellular administration of L-tyrosine and L-phenylalanine on voltage-operated calcium conductance in PC12 pheochromocytoma cells" <i>Brain Res.</i> , 1991, 550:11-14.	
	R23	KRYSTAL, J.H. et al. "NMDA Agonists and Antagonist as Probes of Glutamatergic Dysfunction and Pharmacotherapies in Neuropsychiatric Disorders" <i>Harv. Rev. Psychiatry</i> , Sept.-Oct. 1999, 7(3):125-143.	
	R24	LIPTON, S.A. and P.A. ROSENBERG "Excitatory Amino Acids as a Final Common Pathway for Neurologic Disorders" <i>N. Engl. J. Med.</i> , 1994, 330(9):613-622.	
	R25	MARTYNYUK, A.E. et al. "Blocking effect of intraperitoneal injection of phenylalanine on high-threshold calcium currents in rat hippocampal neurons" <i>Brain Res.</i> , 1991, 552:228-231.	
	R26	MARTYNYUK, A.E. et al. "Adenosine increases potassium conductance in isolated rabbit atrioventricular nodal myocytes" <i>Cardiovasc. Res.</i> 1995, 30:668-675.	

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	R27	MARTYNYUK, A.E. et al. "Hyperkalemia Enhances the Effect of Adenosine on $I_{K,ADO}$ in Rabbit Isolated AV Nodal Myocytes and on AV Nodal Conduction in Guinea Pig Isolated Heart" <i>Circulation</i> , 1999, 99:312-318.	
	R28	MOREY, T.E. et al. "Structure-Activity Relationships and Electrophysiological Effects of Short-Acting Amiodarone Homologs in Guinea Pig Isolated Heart" <i>J. Pharmacol. Exp. Ther.</i> , 2001, 297(1):260-266.	
	R29	MOREY, T.E. et al. "Ionic Basis of the Differential Effects of Intravenous Anesthetics on Erythromycin-induced Prolongation of Ventricular Repolarization in the Guinea Pig Heart" <i>Anesthesiology</i> , 1997, 87:1172-1181.	
	R30	SEUBERT, C.N. et al. "Midazolam Selectively Potentiates the A_{2A} but not A_1 receptor-mediated Effects of Adenosine" <i>Anesthesiology</i> , 2000, 92:567-577.	
	R31	TANAKA, H. et al. "The AMPAR subunit GluR2: still front and center-stage" <i>Brain Res.</i> , 2000, 886:190-207.	
	R32	WEISS, J.H. and S.L. SENSI "Ca ²⁺ -Zn ²⁺ permeable AMPA or kainite receptors: possible key factors in selective neurodegeneration" <i>Trends Neurosci.</i> , 2000, 23(8):365-371.	
	R33	ZIMA, A. et al. "Antagonism of the Positive Dromotropic Effect of Isoproterenol by Adenosine: Role of Nitric Oxide, cGMP-dependent camp-phosphodiesterase and Protein Kinase G" <i>J. Mol. Cell. Cardiol.</i> , 2000, 32:1609-1619.	
	R34	GLUSHAKOV, A.V. et al. "L-phenylalanine selectively depresses currents at glutamatergic excitatory synapses" <i>J. Neurosci. Res.</i> , 2003, 72:116-124.	
	R35	GLUSHAKOV, A.V. et al. "Specific inhibition of N-methyl-D-aspartate receptor function in rat hippocampal neurons by L-phenylalanine at concentrations observed during phenylketonuria" <i>Molecular Psychiatry</i> , 2002, 7:359-367.	
	R36	LIECHTY, E.A. et al. "Aromatic amino acids are utilized and protein synthesis is stimulated during amino acid infusion in the ovine fetus" <i>J. Nutrition</i> , 1999, 129:1161-1166.	
	R37		
	R38		
	R39		

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